



BIOLOGY

NCERT - NCERT BIOLOGY(TELUGU)

EXCRETION - THE WASTAGE DISPOSING SYSTEM

Think And Discuss

1. Do cells need excretion?



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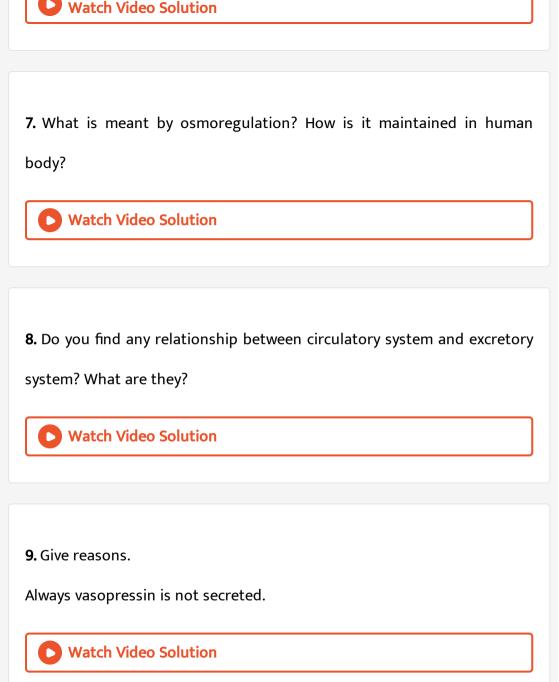
2. Why we advised to take sufficient water?



3. Why do some children pass urine during sleep at night until 15 or 16
years of age?
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4. Why are weeds and wild plants not affected by insects and pests?
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5. Do cells need excretion ?
Watch Video Solution
6. Why we advised to take sufficient water?
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7. Why do some children pass urine during sleep at night until 15 or 16
years of age?
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8. Why weeds and wild plants are not affected by insects and pests?
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Improve Your Learning
1. What is meant by excretion?
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2. How are waste products excreted in amoeba ?
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3. Name different excretory organs in human body and excretory material generated by them? **Watch Video Solution** 4. Deepak said that 'Nephrons are functional and structural units of kidneys'. How will you support him? **Watch Video Solution** 5. How do plants manage the waste materials? **Watch Video Solution** 6. Why do some people need to use a dialysis machine? Explain the principal involved



10. Give reasons.

When urine is discharged, in beginning it is acidic in nature later it become alkaline.



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11. Give reasons.

Diameter of afferent arteriole is bigger than efferent arteriole.



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12. Give reasons.

Urine is slightly thicker in summer than in winter.



13. Write differences between,
A. Functions of PCT and DCT
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14. Write difference
Kidney and artificial kidney
·
Watch Video Solution
15. Write difference
Excretion and secretion
Watch Video Solution
16. Write difference
Primary metabolites and secondary metabolites

17. There is a pair of bean-shaped organs 'P' in the human body towards the back, just above the waist. A waste product 'Q formed by the decomposition of unused proteins in liver is brought into organ 'P' through blood by an artery "R". The numerous tiny filters 'S' present in organ 'P' clean the dirty blood goes into circulation through a vein 'T'. The waste substance 'Q' and other waste salts and excess water form a yellowish liquid 'U' which goes from organ 'P' into a bag like structure 'V' through two tubes 'W'. This liquid is then thrown out of the body through a tube 'X'.

What is (i) organ P and (ii) waste substance Q.



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18. There is a pair of bean-shaped organs 'P' in the human body towards the back, just above the waist. A waste product 'Q formed by the decomposition of unused proteins in liver is brought into organ 'P'

through blood by an artery "R". The numerous tiny filters 'S' present in organ 'P' clean the dirty blood goes into circulation through a vein 'T'. The waste substance 'Q' and other waste salts and excess water form a yellowish liquid 'U' which goes from organ 'P' into a bag like structure 'V' through two tubes 'W'. This liquid is then thrown out of the body through a tube 'X'.

Name (i) artery R and (ii) vein T.



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19. There is a pair of bean-shaped organs 'P' in the human body towards the back, just above the waist. A waste product 'Q formed by the decomposition of unused proteins in liver is brought into organ 'P' through blood by an artery "R". The numerous tiny filters 'S' present in organ 'P' clean the dirty blood goes into circulation through a vein 'T'. The waste substance 'Q' and other waste salts and excess water form a yellowish liquid 'U' which goes from organ 'P' into a bag like structure 'V' through two tubes 'W'. This liquid is then thrown out of the body

through a tube 'X'.

What are tiny filters S known as?



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20. There is a pair of bean-shaped organs 'P' in the human body towards the back, just above the waist. A waste product 'Q formed by the decomposition of unused proteins in liver is brought into organ 'P' through blood by an artery "R". The numerous tiny filters 'S' present in organ 'P' clean the dirty blood goes into circulation through a vein 'T'. The waste substance 'Q' and other waste salts and excess water form a yellowish liquid 'U' which goes from organ 'P' into a bag like structure 'V' through two tubes 'W'. This liquid is then thrown out of the body through a tube 'X'.

Name (i) liquid (ii) structure V (iii) tubes W (iv) tube X.



21. The organ 'A' of a person has been damaged completely due to a poisonous waste material "B' has started accumulation in his blood, making it dirty. In order to save this person's life, the blood from an artery in the person's arm is made to flow into long tubes made of substance 'E'which are kept in coiled form in a tank containing solution "F". This solution contains three materials 'G', 'H' and 'l' similar proportions to those in normal blood. As the person's blood passes through long tubes of substance 'E', most if the wastes present in it go into solution 'F'. The clean blood is then put back into a vein in the person for circulation



What is organ A?

Watch Video Solution

22. The organ 'A' of a person has been damaged completely due to a poisonous waste material "B' has started accumulation in his blood, making it dirty. In order to save this person's life, the blood from an artery in the person's arm is made to flow into long tubes made of substance 'E'which are kept in coiled form in a tank containing solution "F". This

solution contains three materials 'G', 'H' and 'l' similar proportions to those in normal blood. As the person's blood passes through long tubes of substance 'E', most if the wastes present in it go into solution 'F'. The clean blood is then put back into a vein in the person for circulation Name the wastes substance B.



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23. The organ 'A' of a person has been damaged completely due to a



What are (i) E, and (ii) F?

24. The organ 'A' of a person has been damaged completely due to a poisonous waste material "B' has started accumulation in his blood, making it dirty. In order to save this person's life, the blood from an artery in the person's arm is made to flow into long tubes made of substance 'E'which are kept in coiled form in a tank containing solution "F". This solution contains three materials 'G', 'H' and 'l' similar proportions to those in normal blood. As the person's blood passes through long tubes of substance 'E', most if the wastes present in it go into solution 'F'. The clean blood is then put back into a vein in the person for circulation What is organ A?



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which are kept in coiled form in a tank containing solution 'F'. This solution contains three materials 'G', 'H' and 'I' and similar proportions to those in normal blood. As the person's blood passes through-long tubes of substance 'E', most of the wastes present in it go into solution 'F'. The clean blood is then put back into a vein in the person for circulation.



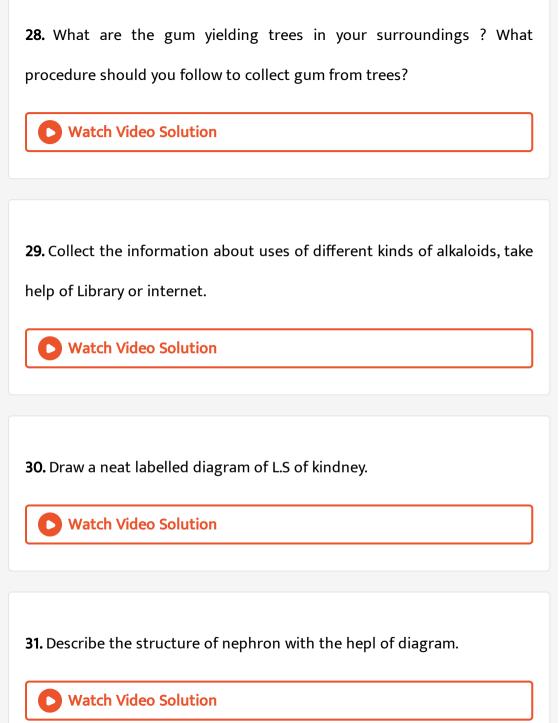
What is the process described above known as?

26. Imagine what happens if waste materials are not sent out of the body from time to time.



27. To keep your kidneys healthy for long period what questions will you ask a nephrologist/urologist?





32. Draw a block diagram showing the pathway of excretory system in human beings. **Watch Video Solution** 33. If you want to explain the process of filteration I kidney what diagram you need to draw. **Watch Video Solution** 34. List out the things that makes you amazing in excretory system of human being. **Watch Video Solution** 35. You read about 'Brain dead' in this chapter. What discussions would



you like to have when you think so?

36. We people have very less awareness about organ donation, to motivate people write slogans about donation.



37. After learning this chapter (Excretion - The wastage disposing system) what habits would you like to change or follow for proper functioning of kidneys?



38. What is meant by excretion?

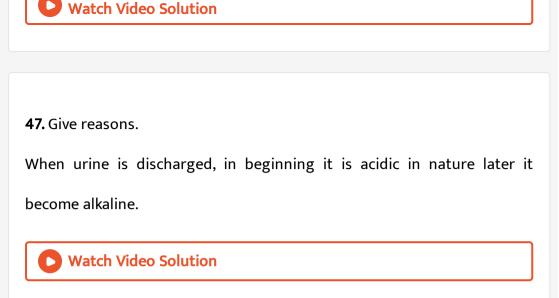


39. How are waste products excreted in amoeba?

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40. Name different excretory organs in human body and excretory
material generated by them?
Watch Video Solution
41. Deepak said that 'Nephrons are functional units of kidneys' how will you support him? Watch Video Solution
42. How do plants manage the waste materials?
Watch Video Solution

43. Why do some people need to use a dialysis machine? Explain the principal involved **Watch Video Solution** 44. What is meant by osmoregulation? How is it maintained in human body? **Watch Video Solution 45.** Do you find any relationship between circulatory system and excretory system? What are they? **Watch Video Solution** 46. Give reasons.

Always vasopressin is not secreted.



48. Give reasons

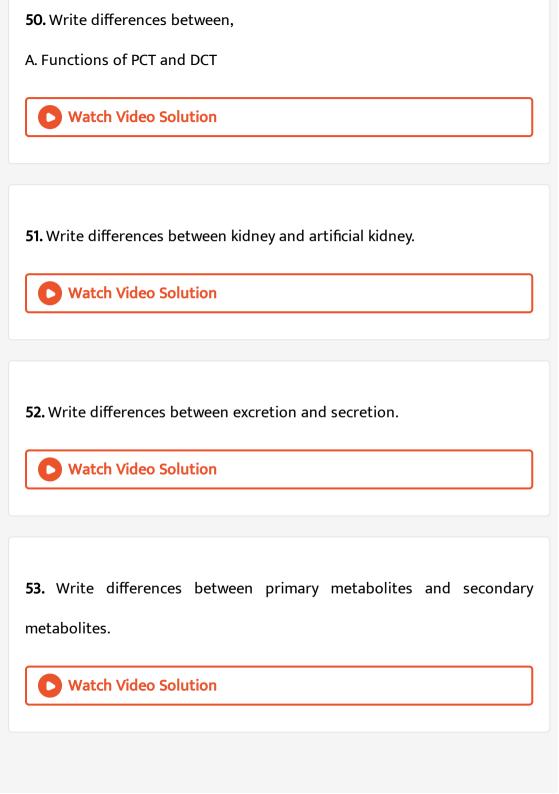
Diameter of afferent arteriole is greater than efferent arteriole.



49. Give reasons

Urine is slightly thicker in summer than in winter?





54. There is a pair of bean-shaped organs P in the human body towards the back just above the waist A waste product Q formed by the decomposition of unused proteins in liver is brought into organ P through blood by an artery R The numerous tiny filters S present in organ P clean the dirty blood goes into circulation through a vein T The waste substance Q other waste salts and excess water form a yellowish liquid U which goes from organ P into a bag like structure V through two tubes W. (i)This liquid is then thrown out of the body through a tube X (ii) structure V



Watch Video Solution

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Watch Video Solution

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Watch Video Solution

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those in normal blood. As the person's blood passes through long tubes of substance 'E', most if the wastes present in it go into solution 'F'. The clean blood is then put back into a vein in the person for circulation What is organ A?



Watch Video Solution

59. The organ of a person has been damaged completely due to a poisonous waste material B has started accumulation in his blood making it dirty In order to save this persons life the blood from an artery in the person s arm is made to flow Into long tubes made of substance E which are kept in coiled form in a tank containing solution F This solution contains three materials G H and I similar proportions to those in normal blood As the person s blood passes through long tubes of substance E, most of the wastes present in it go into solution . The clean blood is then put back into a I In the person for circulation (i) F?



60. The organ of a person has been damaged completely due to a poisonous waste material B has started accumulation in his blood making it dirty In order to save this persons life the blood from an artery in the person s arm is made to flow Into long tubes made of substance E which are kept in coiled form in a tank containing solution F This solution contains three materials G , H and I in similar proportions to those in normal blood . As the person 's blood passes through long tubes of substance E, most of the wastes present in it go into solution . The clean blood is then put back into a I In the person for circulation. What are (i) E, and (II) F



Watch Video Solution

61. The organ of a person has been damaged completely due to a poisonous waste material B has started accumulation in his blood making it dirty In order to save this persons life the blood from an artery in the person s arm is made to flow Into long tubes made of substance E which are kept in coiled form in a tank containing solution F This solution contains three materials G H and I similar proportions to those in normal

blood As the person s blood passes through long tubes of substance E, most of the wastes present in it go into solution . The clean blood is then put back into a I In the person for circulation (i) F?

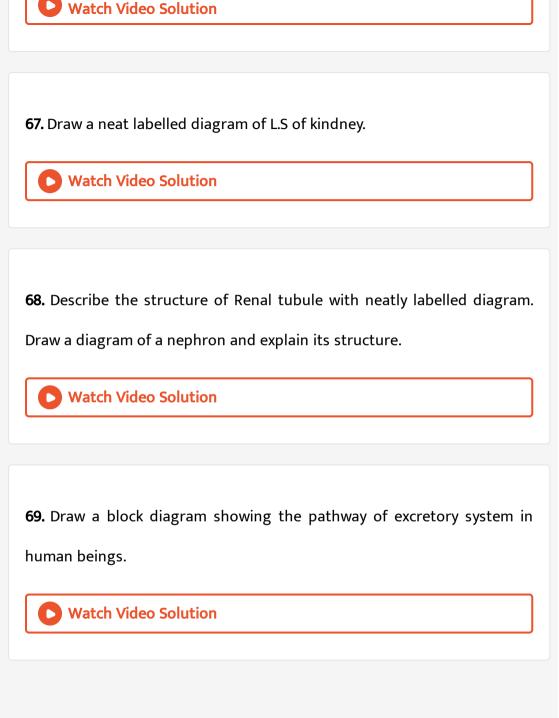


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62. The organ of a person has been damaged completely due to a poisonous waste material B has started accumulation in his blood making it dirty In order to save this persons life the blood from an artery in the person s arm is made to flow Into long tubes made of substance E which are kept in coiled form in a tank containing solution F This solution contains three materials G H and I similar proportions to those in normal blood As the person s blood passes through long tubes of substance E, most of the wastes present in it go into solution . The clean blood is then put back into a I In the person for circulation (i) F?



63. Imagine what happens if waste materials are not sent out of the body from time to time. **Watch Video Solution** 64. To keep your kidneys healthy for long period what questions will you ask a nephrologist/urologist? **Watch Video Solution** 65. What are the gum yielding trees in your surroundings? What procedure should you follow to collect gum from trees? **Watch Video Solution** 66. Collect the information about uses of different kinds of alkaloids, take help of Library or internet.



70. If you want to explain the process of filteration I kidney what diagram you need to draw. **Watch Video Solution** 71. List out the things that makes you amazing in excretory system of human being. **Watch Video Solution** 72. You read about 'Brain dead' in this chapter. What discussions would you like to have when you think so? **Watch Video Solution** 73. We people have very less awareness about organ donation, to motivate people write slogans about donation.



74. After learning this chapter (Excretion - The wastage disposing system) what habits would you like to change or follow for proper functioning of kidneys?



Fill In The Blanks

1. Earthworm excretes its waste material through





3. The process of control of water balance and ion concentration within							
organism is called							
Watch Video Solution							
4. Reabsorption of useful product takes place in part of nephron.							
Watch Video Solution							
5. Gums and resins are the products of the plants.							
Watch Video Solution							
6. Bowman's capsule and tubule taken together make a							
Watch Video Solution							

7. The alkaloid used for malaria treatment is
Watch Video Solution
8. The principle involved in dialysis
Watch Video Solution
9. Rubber is produced from of Heavea braziliensis.
Watch Video Solution
10. Who performed the first kidney transplantation?
Watch Video Solution
11. Earthworm excretes its waste material through
Watch Video Solution

Watch video Solution
12. The dark coloured outer zone of kidney is called
Watch Video Solution
13. The process of control of water balance and ion concentration within organism is called
Watch Video Solution
14. Reabsorption of useful product takes place in part of nephron.
Watch Video Solution
15. Gums and resins are the products of the plants.
Watch Video Solution

16.	Bowman's	capsule	and	tubule	taken	together	make	a	
		·							
C	Watch Video Solution								
17. Tl	he alkaloid u	sed for ma	alaria t	reatment	is		_•		
C	Watch Vid	eo Solutio	n						
18. T	he principle	involved ir	n dialys	is					
C	Watch Vid	eo Solutio	n						
19. R	ubber is pro	duced fror	m		of H	leavea brazi	iliensis.		
C	Watch Vid	eo Solutio	n						

20developed dialysis machine.
Watch Video Solution
Choose The Correct Answer
1. The structural and functional unit of human kidney is called
A. Neuron
B. nephron
C. nephridia
D. flame cell
Answer:
Watch Video Solution

2. The excretory organ in cockroach
A. malpighian tubules
B. raphids
C. ureters
D. nephridia
Answer: Watch Video Solution
3. Which of the following is the correct path taken by urine in our body? (i) Kidneys (ii) Ureters (iii) Urethra (iv) Urinary bladder ()
A. i, ii, iv, iii
B. i, ii, iii, iv
C. iv, iii, i, ii
D. ii,iii, i, iv

Answer:
Watch Video Solution
4. Malpighian tubes are excretory organs in ()
A. earth worm
B. house fly
C. flatworm
D. hen
Answer:
Watch Video Solution
5. Major component of urine is ()
A. urea

B. sodium	
C. water	
D. creatine	
Answer:	
Watch Video Solution	
6. Special excretory organs are absent in ()	
A. birds	
B. amoeba	
C. sponges	
D. a and b	
Answer:	
Watch Video Solution	

7. Which of the following hormone has direct impact on urination?
()
A. adrenal
B. vasopressin
C. testosterone
D. Oestrogen
Answer:
Watch Video Solution
Watch Video Solution
Watch Video Solution 8. Amber colour to urine due to
8. Amber colour to urine due to ()
8. Amber colour to urine due to () A. urochrome

Answer:
Watch Video Solution
9. Sequence of urine formation in nephron is ()
A.
Glomerular filtration - Tubular reabsorption - Tubular secretion
В.
Tubular reabsorption - Tubular secretion - Glomerular filtration
C.
Tubular secretion - Glomerular filtration - Tubular reabsorption
D.
Tubular reabsorption - concentration of urine - Tubular secretic
Answer:
Watch Video Solution

10. Part of the nephron that exists in outer zone of kidney. ()
A. Loop of the henle
B. PCT
C. DCT
D. Bowman's capsule
Answer:
Watch Video Solution
11. After having lunch or dinner one can feel to pass urine, because of a
A. stomach pressures on bladder
B. solids become liquids
C. water content in food material

D. spincter relaxation
Answer: Watch Video Solution
12. The excretory unit in the human excretory system is called
A. Neuron
B. nephron
C. nephridia
D. flame cell
Answer:
Watch Video Solution
13. The excretory organ in cockroach

A. malphigian tubules B. raphids C. ureters D. nephridia **Answer: Watch Video Solution** 14. Which of the following is the correct path taken by urine in our body? (i) Kidneys (ii) Ureters (iii) Urethra (iv) Urinary bladder A. kidney ureters bladder urethra bladder B. Kidney ureters bladder urethra C. Kidney bladder ureters urethra D. Answer:



15. Malpighian tubes are excretory organs in	()

A. earth worm

B. house fly

C. flat worm

D. hen

Answer:



16. Major component of urine is

A. urea

B. sodium

C. water

18. Which of the following hormone has direct impact on urination?()
A. adrenal
B. vasopressin
C. creatine
D. estrogen
Answer:
Watch Video Solution
Watch Video Solution
Watch Video Solution 19. Amber colour to urine due to
19. Amber colour to urine due to
19. Amber colour to urine due to A. urochrome

Answer: **Watch Video Solution** 20. Sequence of urine formation in nephron is A. Glomerular filtration, Tubular reabsorption, Tubular secretion B. Tubular reabsorption, Tubular secretion, Glomerular filtration, C. Tubular secretion, Glomerular filtration, Tubular reabsorption D. Tubular reabsorption, concentration of urine, Tubular secretion Answer: **Watch Video Solution** 21. Part of the nephron that exists in outer zone of kidney. A. Loop of the henle

